



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. R5-2007-XXXX

FOR  
GRANITE CONSTRUCTION COMPANY  
RIO DEL ORO FACILITY  
WATER SUPPLY WELL TREATMENT SYSTEM DISCHARGES  
SACRAMENTO COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring a groundwater extraction and treatment system. This MRP is issued pursuant to Water Code Section 13267. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer. Regional Board staff shall approve specific sample station locations prior to implementation of sampling activities.

All samples should be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each grab sample shall be recorded on the sample chain of custody form.

Field test instruments (such as those used to test pH and dissolved oxygen) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments;
2. The instruments are calibrated prior to each monitoring event;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are submitted as described in the "Reporting" section of this MRP.

### INFLUENT MONITORING

During regular operation samples for influent monitoring shall be collected at a point prior to the lead GAC unit at each of the groundwater treatment facilities. Influent monitoring shall include the following:

| <u>Constituent</u>         | <u>Units</u> | <u>Type of Sample</u> | <u>Sampling Frequency</u> | <u>Reporting Frequency</u> |
|----------------------------|--------------|-----------------------|---------------------------|----------------------------|
| Influent Flow              | gpm          | Meter                 | Continuously              | Quarterly                  |
| Monthly Average Daily Flow | gpd          | Calculated            | Monthly                   | Quarterly                  |
| VOCs <sup>1</sup>          | ug/l         | Grab                  | Monthly                   | Quarterly                  |
| pH                         | pH units     | Grab                  | Monthly                   | Quarterly                  |
| perchlorate                | ug/L         | Grab                  | Monthly                   | Quarterly                  |

<sup>1</sup> Volatile organic contaminants by EPA Method 8260 or 601/602, or an equivalent method with a reporting limit of no greater than 0.5 µg/l. Values between the detection level and the reporting level should be reported as trace.

## EFFLUENT MONITORING

During regular operation effluent samples shall be collected before discharge and shall be representative of the volume and nature of the discharge. Effluent monitoring shall include the following for each of the two treatment facilities:

| <u>Constituent</u>                       | <u>Units</u> | <u>Type of Sample</u> | <u>Sampling Frequency</u> | <u>Reporting Frequency</u> |
|--|--------------|-----------------------|---------------------------|----------------------------|
| Effluent Flow                            | gpm          | Meter                 | Continuously              | Quarterly                  |
| Monthly Average Daily Flow               | gpd          | Calculated            | Monthly                   | Quarterly                  |
| VOCs <sup>1</sup> in Effluent            | ug/L         | Grab                  | Monthly                   | Quarterly                  |
| VOCs <sup>1</sup> between GAC Vessels    | ug/L         | Grab                  | Monthly                   | Quarterly                  |
| pH                                       | pH units     | Grab                  | Monthly                   | Quarterly                  |
| Perchlorate <sup>2</sup> in Effluent     | ug/L         | Grab                  | Monthly                   | Quarterly                  |
| Perchlorate <sup>2</sup> between vessels | ug/L         | Grab                  | Monthly                   | Quarterly                  |

1 Volatile organic contaminants by EPA Method 8260 or 601/602, or an equivalent method with a reporting limit of no greater than 0.5 µg/l. Values between the detection level and the reporting level should be reported as trace.

2 If treatment for perchlorate removal is added to the groundwater treatment facility

## REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, pond, etc.), and reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate compliance with waste discharge requirements and spatial or temporal trends, as applicable. The results of any monitoring done more frequently than required at the locations specified in the Monitoring and Reporting Program shall be reported to the Regional Board.

As required by the California Business and Professions Code Sections 6735, 7835, and 7835.1, all Groundwater Monitor Reports shall be prepared under the direct supervision of a Registered Engineer or Geologist and signed by the registered professional.

### A. Quarterly Monitor Reports

Daily, bi-weekly, and monthly monitoring data shall be reported in quarterly monitor reports. Monthly reports shall be submitted to the Regional Board by the **1<sup>st</sup> day of the**

**second month after the quarter** (i.e. the January-March Report is due by 1 May). At a minimum, the Quarterly reports shall include:

1. Results of influent and effluent monitoring;
2. A comparison of monitoring data to the discharge specifications and an explanation of any violation of those requirements. Data shall be presented in tabular format;
3. If requested by staff, copies of laboratory analytical report(s); and
4. A calibration log verifying calibration of all hand-held monitoring instruments and devices used to comply with the prescribed monitoring program.
5. A log of GAC replacement and ion exchange resin replacement (if applicable), along with transportation date(s) and destination of disposal.

A letter transmitting the self-monitoring reports shall accompany each report. Such a letter shall include a discussion of requirement violations found during the reporting period, and actions taken or planned for correcting noted violations, such as operation or facility modifications. If the Discharger has previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. The transmittal letter shall contain the penalty of perjury statement by the Discharger, or the Discharger's authorized agent, as described in the Standard Provisions General Reporting Requirements Section B.3.

The Discharger shall implement the above monitoring program on the first day of the month following adoption of this Order.

Ordered by: \_\_\_\_\_  
PAMELA C. CREEDON Executive Officer

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(Date)

12/11/06:AMM